

ABSTRACT

DEVICE FOR MEASURING TRANSLATION,
ROTATION OR VELOCITY VIA LIGHT BEAM INTERFERENCE

The device for measuring translation, rotation or velocity includes at least a light source, a light detector, a first grating and a second grating, the first grating being mobile relative to the second grating. A incident beam reaches the first grating where it is diffracted in two beams whose directions are interchanged by the second
5 grating, the resulting beams being then again diffracted by the first grating in an output diffraction direction where they interfere together. Both gratings are used in reflexion.

Figure 7

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09788444-022101